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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/830,036	04/23/2004	Yoshihisa Kaminaga	252117US2SCONT	7508
22850	7590 03/27/2006		EXAMINER	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.			VU, JIMMY T	
	1940 DUKE STREET ALEXANDRIA, VA 22314		ART UNIT	PAPER NUMBER
			2821	
			DATE MAILED: 03/27/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	
Office Action Summary		10/830,036	KAMINAGA ET AL.	
		Examiner	Art Unit	
		Jimmy Vu	2821	
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address	
A SH WHIC - Exter after - If NO - Failu Any I	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER; FROM THE MAILING DA asions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory period w re to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	L. lely filed the mailing date of this communication. C) (35 U.S.C. § 133).	
Status				
1)⊠ 2a)⊠ 3)□	Responsive to communication(s) filed on <u>09 No.</u> This action is FINAL . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro	•	
Dispositi	on of Claims			
5)□ 6)⊠ 7)□ 8)□ Applicat 9)□ 10)□	Claim(s) 1-10 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-10 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/o ion Papers The specification is objected to by the Examine The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine Replacement drawing sheet(s) including the correct the correct drawin	wn from consideration. r election requirement. r. epted or b) objected to by the I drawing(s) be held in abeyance. See ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).	
Priority (under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some color None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.				
2) 🔲 Notic 3) 🔀 Infor	nt(s) ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) or No(s)/Mail Date <u>4/23/</u> 04	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:		

DETAILED ACTION

Claim Objections

Regarding claim 1, lines 3-4, it is unclear. The phrase of "a plurality of electrode elements... and looking like islands" is not understood. What does applicant mean of the electrode elements being looking like islands. Does applicant mean the electrode elements being big like the islands. So if the electrode elements are looking like the island then how can them (the electrode elements) being formed or fit into the resistor as require in the preamble of claim 1, line 1. Please clarify the limitation as above.

By applying art, the examiner assumes the phrase should be read as "the electrode elements formed on the insulating substrate" for proper reading.

Regarding claim 4, lines 13-14, it is unclear. The phrase of "a plurality of electrode elements... and looking like islands" is not understood. What does applicant mean of the electrode elements being looking like islands. Does applicant mean the electrode elements being big like the islands. So if the electrode elements are looking like the island then how can them (the electrode elements) being formed or fit into the resistor as require in the preamble of claim 1, line 1. Please clarify the limitation as above.

By applying art, the examiner assumes the phrase should be read as "the electrode elements formed on the insulating substrate" for proper reading.

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Claim Rejections - 35 USC § 102

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1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-10 are rejected under 35 U.S.C. 102(b) as being anticipated by Irikura (U.S. Patent 6,356,021 B2).

As to claim 1, Iikura discloses an electron gun assembly resistor comprising: an insulating substrate (21-figure 4);

a plurality of electrode elements (22A-22E) formed on the insulating substrate a resistor element (23) connecting the electrode elements (22A-22E) together and providing a predetermined resistance value; and

a plurality of metallic terminals (31A-31E) which include flanges in contact with the electrode elements, and which are connected to the electrode elements, the electron gun assembly resistor satisfying

where L1 is an outer dimension of at least one of the electrode elements, and 1.2 is an outer dimension of the flange of the metallic terminal that is connected to the electrode element whose outer dimensions is L1 (figs. 1-7, column 5, lines 1-50, column 6, lines 35-60).

As to claims 2 and 5, Irikura discloses the flanges are located outward of outer peripheries of the electrode elements (22A-22E), see figs 1-7.

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As to claims 3 and 6, Irikura discloses the flanges include tip ends that are curved to cover the electrode elements (Figs 1-7).

As to claim 4, Irikura discloses an apparatus comprising:

a face panel (102);

a funnel (103) integrally connected to the face panel;

a phosphor screen (105) formed on an inner surface of the face panel;

an electron gun assembly (108) arranged in a neck of the funnel, configured to emit electron beams toward the phosphor screen, and including a plurality of grid electrodes; and

an electron gun assembly resistor (see figs 1-7) arranged in the neck (104) and juxtaposed to the electron gun assembly, the electron gun assembly resistor dividing a voltage based on a predetermined voltage division ratio and permitting a divided voltage to be applied to at least one of the grid electrodes, the electrode gun assembly resistor comprising:

an insulating substrate (21);

a plurality of electrode elements (22A-22E) formed on the insulating substrate;

a resistor element (23) connecting the electrode elements together and providing a predetermined resistance value, and

a plurality of metallic terminals (31A-31E) which include flanges in contact with the electrode elements, and which are connected to the electrode elements, the electron gun assembly resistor satisfying

L1 < L2

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and

where L1 is an outer dimension of at least one of the electrode elements, and 1.2 is an outer dimension of the flange of the metallic terminal that is connected to the electrode element whose outer dimension is L1.

As to claim 7, Irikura discloses an electron gun assembly resistor configured to divide a voltage based on a predetermined voltage division ratio and to permit a divided voltage to be applied to an electrode of an electron gun assembly, the electron gun assembly resistor comprising:

an insulating substrate (21);

a plurality of electrode elements (22A-22E) formed on the insulating substrate;
a resistor element (23) connecting the electrode elements together and providing a
predetermined resistance value; an insulating coating layer which covers the resistor element;

a plurality of metallic terminals (31A-31E) connected to the electrode elements, respectively, the metallic terminals being arranged without exposing the electrode elements, the insulating coating layer being coated on peripheries of the metallic terminals and being located away from the electrode elements (figs 1-7, column 5, lines 1-50, column 6, lines 35-60, and column 7, lines 5-25).

As to claim 8, Irikura discloses regions where the insulating coating layer covers the peripheries of the electrode elements are regions where the insulating substrate has surface portions that are electrically charged to have a potential higher than that of the metallic terminals (figs 1-7).

As to claim 9, Irikura discloses the metallic terminals include flanges which are in contact with the electrode elements, and the flanges have an outer dimension greater than that of the electrode elements and include portions located outward of the peripheries of the electrode elements (figs 1-7).

As to claim 10, Irikura discloses the insulating coating layer covers the peripheries of the flanges of the metallic terminals without exposing the insulating substrate (figs 1-7).

Response to Arguments

3. Applicant's arguments filed 11/09/05 have been fully considered but they are not persuasive.

Applicant argues:

(a) Irikura does not satisfy the formula L1<L2 as described in the Remarks on page 4.

Examiner disagrees, as shown in fig 4 of the reference, Irikura does disclose an outer dimension of the flange (31b) of the terminals 31A-31E having length (L) from the terminal 31A to the flange 31b, noted as L2, which is longer than the length (L) of the electrode element 22A, noted as L1. So the length of L2 is greater than the length of L1. Therefore, the Ikura meets or satisfies the fomula L1<L2.

(b) Ikura does not disclose "the terminal being arranged without exposing the electrode terminal.

Examiner disagrees because as in claim 7 of the instant application, the applicant does not claim the terminal being arranged completely without exposing the

electrode element, so that as shown in fig 4, the terminal (31) on the left side completely cover the electrode element of left side 22A, and substantially cover the right side.

Thus, Examiner believes the Ikura reference meets all the limitations of the claimed invention. Hence, the rejection is proper.

Conclusion

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jimmy Vu whose telephone number is 571-272-1832. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on 571-272-1834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jimmy Vu March 11, 2006.

> WILSON LEE PRIMARY EXAMINER